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PTO/SB/21 (04-07)

Approved for use through 09/30/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/723,365 Conf. No. 4199	
	Filing Date	November 26, 2003	
	First Named Inventor	Dirk van den Boom	
	Art Unit	1637	
	Examiner Name	Woolwine, Samuel C.	
Total Number of Pages in This Submission	29	Attorney Docket Number	SEQ-2073-UT

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	See Remarks
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<b>Remarks</b> Statement Under 37 C.F.R. 1.8(b)(3); Submission Under 37 C.F.R. 1.8(b)(3); Form 2038, Return Postcard with Postage, Copies of submission from 7 May 2007(22 pages) (transmittal form; amendment after final; extension of time request; notice of appeal; form 2038, return postcard)	
<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>		
Firm Name	Grant Anderson LLP	
Signature		
Printed name	Sheryl R. Silverstein	
Date	June 11, 2007	Reg. No. 40,812

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: <u>Express Mail No. EQ 645 833765 US</u> <u>Mail Stop After Final</u>		
Signature		
Typed or printed name	Sheryl R. Silverstein	Date June 11, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Dirk van den Boom et al.

Appln. No.: 10/723,365

Filed: November 26, 2003

For: FRAGMENTATION-BASED METHODS  
AND SYSTEMS FOR SEQUENCE VARIATION  
DETECTION AND DISCOVERY

Examiner: Samuel Woolwine

Art Unit: 1637

Conf. No. 4199

STATEMENT UNDER 37 C.F.R. 1.8(b)(3)

Mail Stop After Final  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

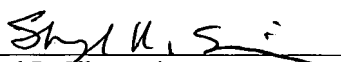
Dear Sir:

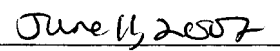
I attest that the documents listed below were filed with the United States Patent Office by deposit with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop After Final, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 7<sup>th</sup>, 2007. I personally deposited the envelope containing the documents with the United States Postal Service.

1. Transmittal Form (1 page)

CERTIFICATE OF TRANSMISSION/MAILING UNDER 37 CFR 1.8

The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as Express Mail, Express Mail No. EQ645833765US, in an envelope addressed to: Mail Stop After Final, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 11th day of June, 2007.

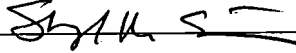
  
Sheryl R. Silverstein

  
Date

2. Amendment (filed under 37 CFR 1.114) ( 15 Pages);
3. Petition for 2 Month Extension of Time (1 page);
4. Fee Transmittal (1 page);
5. Notice of Appeal (1 page);
6. Form PTO/2038 (1 page); and
7. Return Postcard (1 page).

Respectfully submitted,

Dated: 11 June 2007

By: \_\_\_\_\_

Sheryl R. Silverstein  
Registration No. 40,812  
Grant Anderson, LLP  
6640 Lusk Blvd., Suite C210  
San Diego, California 92121

Direct: (760) 473-9472  
Facsimile: (858) 623-3224



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Examiner: Samuel Woolwine

Art Unit: 1637

Conf. No. 4199

SUBMISSION UNDER 37 C.F.R. 1.8(b)(3)

Mail Stop After Final  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

On May 7, 2007, the following documents were filed with the United States Patent Office by deposit with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop After Final, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 7<sup>th</sup>, 2007.

1. Transmittal Form (1 page)
2. Amendment (filed under 37 CFR 1.114) ( 15 Pages);
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Sheryl R. Silverstein  
Sheryl R. Silverstein

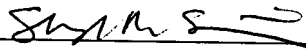
June 11, 2007  
Date

These documents were filed in response to a Final Office Action mailed December 5, 2006. May 5, 2007 was a Saturday, therefore these documents were timely filed with a Petition for Extension of Time and a two month extension fee.

On June 8, 2007, the attorney listed below, Sheryl Silverstein, received a call from Examiner Samuel Woolwine inquiring whether a response had been filed. The attorney checked Private PAIR and found no listing for the response, also, the return postcard has not yet been received by the attorney's firm, Grant Anderson LLP. To expedite prosecution of this application, the Applicant hereby submits a Statement Under 37 C.F.R. 1.8(b)(3), providing the Certificate of Mailing and attesting that the documents were submitted on the date listed. Copies of the submission are also hereby submitted. Because the credit card number has been blocked out from the copy of the submission, Applicant hereby submits a new form 2038.

Respectfully submitted,

Dated: 11 June 2007

By:   
Sheryl R. Silverstein  
Registration No. 40,812  
Grant Anderson, LLP  
6640 Lusk Blvd., Suite C210  
San Diego, California 92121

Direct: (760) 473-9472  
Facsimile: (858) 623-3224



PTO/SB/21 (04-07)

Approved for use through 09/30/2007. OMB 0651-0031

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	Filing Date	November 26, 2003	
	First Named Inventor	Dirk van den Boom	
	Art Unit	1637	
	Examiner Name	Woolwine, Samuel C.	
Total Number of Pages in This Submission	21	Attorney Docket Number	SEQ-2073-UT

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<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Pet. Ext. time; form 2038, return postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD. Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Grant Anderson LLP		
Signature	<i>[Signature]</i>		
Printed name	Sheryl R. Silverstein		
Date	May 7, 2007	Reg. No.	40,812

CERTIFICATE OF TRANSMISSION/MAILING			
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Signature	<i>[Signature]</i>		
Typed or printed name	Sheryl R. Silverstein	Date	May 7, 2007

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL**  
**For FY 2007**☒ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 475.00**Complete if Known**

Application Number	10/723,365
Filing Date	Nov. 26, 2003
First Named Inventor	Dirk van den Boom
Examiner Name	Wendell Samuel C.
Art Unit	1637
Attorney Docket No.	SEA-2073-UT

**METHOD OF PAYMENT** (check all that apply)

☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☐ Deposit Account Deposit Account Number: \_\_\_\_\_ Deposit Account Name: \_\_\_\_\_

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☐ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

Each claim over 20 (including Reissues)

Fee (\$)	Small Entity Fee (\$)
50	25

Each independent claim over 3 (including Reissues)

200	100
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Multiple dependent claims

360	180
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Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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- 20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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- 3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(c)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
--------------	--------------	--	----------	---------------

- 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification. \$130 fee (no small entity discount)

**Fees Paid (\$)**Other (e.g., late filing surcharge): 2 mo. Extension (225.00); Non-Eng. Appeal (250.00) 8475.00**SUBMITTED BY**

Signature	<u>Sheryl R. Silverstein</u>	Registration No. (Attorney/Agent)	<u>40,812</u>	Telephone	<u>760-473-9472</u>
Name (Print/Type)	<u>Sheryl R. Silverstein</u>			Date	<u>May 7, 2007</u>

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Docket No. SEQ-2073-UT

Appln. No. 10/723,365

Conf. No. 4199

Inventor(s): van den Boom et al.

TITLE: FRAGMENTATION-BASED METHODS AND SYSTEMS FOR SEQUENCE  
VARIATION DETECTION AND DISCOVERY

Date of Mailing: May 7, 2007

**Papers enclosed:**

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- (7) Return Postcard (1 page).



Filing date: November 26, 2003

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GRANT ANDERSON, LLP  
C/O PORTFOLIOIP  
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MINNEAPOLIS, MN 55402  
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